
**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/613,519
Filing Date	July 2, 2003
First Named Inventor	Haci, Marc
Art Unit	3672
Examiner Name	William P. Neuder
Total Number of Pages in This Submission	5
Attorney Docket Number	022272-000411US

ENCLOSURES (Check all that apply)

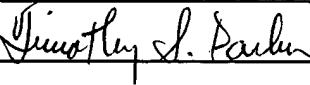
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Forms PTO/SB/8A and B, Return Postcard
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Townsend and Townsend and Crew LLP		
Signature			
Printed name	Jonathan E. Jobe		
Date	January 14, 2005	Reg. No.	28,429

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Signature	
Typed or printed name	Timothy S. Parker
Date	January 14, 2005

JAN 19 2005

Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

Fee Transmittal For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 180)

Complete if Known	
Application Number	10/613,519
Filing Date	July 2, 2003
First Named Inventor	Haci, Marc
Examiner Name	William P. Neuder
Art Unit	3672
Attorney Docket No.	022272-000411US

METHOD OF PAYMENT (check all that apply)

- Check Credit Card Money Order None Other (please identify): _____
- Deposit Account Deposit Account Number: 20-1430 Deposit Account Name: Townsend and Townsend and Crew LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

- Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee
- Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Small Entity		Small Entity		Small Entity		
	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent

Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent

Multiple dependent claims

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Small Entity
	-20 or HP =	x	=		Fee (\$)
					Fee (\$)

HP = highest number of total claims paid for, if greater than 20

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)		
	-3 or HP =	x	=		

HP = highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
	- 100 =	/ 50 =	(round up to a whole number) x	=

4. OTHER FEE(S)

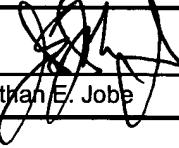
Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Information Disclosure Stmt

Fees Paid (\$)

180

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	Telephone 858-350-6100
Name (Print/Type)	Jonathan E. Jobe	28,429	Date January 14, 2005

O I P E
I hereby certify that this correspondence is being deposited with the United
States Postal Service as first class mail in an envelope addressed to:

JAN 19 2005

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
Attorney Docket No.: 022272-000411US

On January 14, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: Sincerely S. Parker

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Marc Haci, et al.

Application No.: 10/613,519

Filed: July 2, 2003

For: METHOD OF AND APPARATUS
FOR DIRECTIONAL DRILLING

Examiner: William P. Neuder

Art Unit: 3672

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. References BC-BD were cited in Information Disclosure Statements filed in conjunction with parent application no. 10/325,639 (now U.S. patent no. 6,802,378 B2) and dated May 30 and June 18, 2003, respectively. In addition, references AA-AC were cited by the Examiner in an Office Action dated February 13, 2004, also issued in conjunction with the aforementioned parent application. In accordance with 37 CFR §1.98(d),

copies of the references can be found in said parent application (attorney docket no. 022272-000410US).

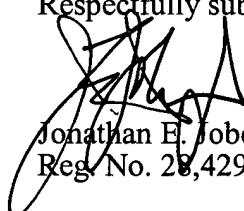
It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,


Jonathan E. Jobe
Reg. No. 28,429

TOWNSEND and TOWNSEND and CREW LLP
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San Francisco, California 94111-3834
Tel: 858-350-6100
Fax: 415-576-0300
JEJ:tsp



Substitute for form 1449A/PTO				<i>Complete if Known</i>	
				Application Number	10/613,519
				Filing Date	July 2, 2003
				First Named Inventor	Haci, Marc
				Art Unit	3672
				Examiner Name	William P. Neuder
Sheet	1	of	2	Attorney Docket Number	022272-000411US

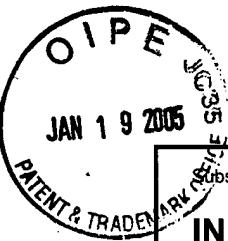
U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
AA	US-6,050,348		04/18/2000	Richardson, et al.	
AB	US-5,465,799		11/14/1995	H. Ho	
AC	US-2002/0104685 A1		08/08/2002	Pinckard, et al.	
AD	US-				
AE	US-				
AF	US-				
AG	US-				
AH	US-				
AI	US-				
AJ	US-				
AK	US-				
AL	US-				
AM	US-				
AN	US-				
AO	US-				
AP	US-				
AQ	US-				
AR	US-				
AS	US-				
AT	US-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)			
	AU					<input type="checkbox"/>
	AV					<input type="checkbox"/>
	AW					<input type="checkbox"/>
	AX					<input type="checkbox"/>
	AY					<input type="checkbox"/>
	AZ					<input type="checkbox"/>
	BA					<input type="checkbox"/>
	BB					<input type="checkbox"/>

Examiner Signature	Date Considered
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	2	of	2	<i>Application Number</i>	10/613,519
				<i>Filing Date</i>	July 2, 2003
				<i>First Named Inventor</i>	Haci, Marc
				<i>Art Unit</i>	3672
				<i>Examiner Name</i>	William P. Neuder
				<i>Attorney Docket Number</i>	022272-000411US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	BC	Canrig Drilling Technology, Ltd., sales brochure for "Directional Steering Control Systems (DSCS)		
	BD	Jean Michel Genevois, Jean Boulet, and Christophe Simon, Gyrostab Project: The Missing Link Azimuth and inclination mastered with new principles for standard rotary BHAs, Society of Petroleum Engineers, SPE/IADC 79915, February 19, 2003		
	BE			
	BF			
	BG			
	BH			
	BI			
	BJ			
	BK			
	BL			
	BM			

Examiner Signature	Date Considered
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¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.